

**UNITED STATES AIR FORCE
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u> JOE FOSS FIELD	<u>AIRPORT ID</u> KFSD	<u>PROCEDURE NAME</u> HI - ILS OR LOC RWY 3	<u>ORIGINAL/AMENDMENT</u> 9B	<u>CITY</u> SIOUX FALLS	<u>STATE</u> SD	
<u>AIRPORT ELEVATION</u> 1430	<u>TDZE</u> 1424	<u>SUPERSEDED</u> HI - ILS OR LOC RWY 3	<u>ORIGINAL/AMENDMENT</u> 9A	<u>DATED</u> 10/17/2013	<u>MAG VAR</u> 5E	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> I-FSD	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
YKN VOR/DME		SKIES/FSD 35.00 DME					038.16	17.10	5000
SKIES/FSD 35.00 DME	IAF	HETBO/FSD 20.00 DME					015.44	15.00 (FSD R-195)	5000
HETBO/FSD 20.00 DME	IF	ROKKY LOM/RADAR					029.89	10.83 (I-FSD)	3400

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.73 NM AFTER ROKKY LOM/RADAR

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3400 THEN CLIMBING LEFT TURN TO 5000 ON HEADING 240 AND FSD VORTAC R-269 TO FRYRE/15.00 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT SKIES
- FAC: 029.89 FAF: ROKKY LOM/RADAR DIST FAF TO MAP: 5.73 DIST FAF TO THLD: 5.73
- MIN ALT: SKIES/FSD 35.00 DME 18000, HETBO/FSD 20.00 DME 5000, ROKKY LOM/RADAR 3400, MAREY INT 1940*
- DIST TO THLD FROM OM: 5.73 MM: IM: 150 HAT: GS ANT: 1040
- MIN GS INCPT: 3400 GS ALT AT FAF : OM: 3305 MM: IM:
- GP ANGLE: 3.00 34:1: 20:1: TCH: 54.3
- MSA FROM: FSD VORTAC 4500, ESA W/IN 100 NM 4600

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.



NOTES:

*LOC ONLY
CHART NOTE: * FOR INOPERATIVE ALS, INCREASE S-ILS 3 RVR TO 4000, VISIBILITY TO 3/4 SM.
CHART NOTE: ** FOR INOPERATIVE ALS, INCREASE S-LOC 3 VISIBILITY TO 1 3/8 SM.
CHART NOTE: *** FOR INOPERATIVE ALS, INCREASE S-LOC 3 RVR TO 5500, VISIBILITY TO 1 SM.

ADDITIONAL FLIGHT DATA:

CHART ARRIVAL HOLDING AT SKIES: HOLD S, RT, 015.44 INBOUND, FL 180.
CHART PLANVIEW NOTE: MAXIMUM HOLDING AIRSPEED AT SKIES 265 KIAS.
CHART: ASR.
CHART CIRCLING ICON.
CHART FAS OBST: 1510 TREE 433349N/0964543W.
CHART 1690 TOWER 433056N/0964820W.
HOLD W, RT, 089.40 INBOUND

MINIMUMS:
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE., NA WHEN CONTROL TOWER CLOSED.; LOC: STANDARD - CAT D 800-2 1/2, CAT E 900-3, NA WHEN LOCAL WEATHER NOT AVAILABLE., NA WHEN CONTROL TOWER CLOSED.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 03*		NA			NA		1674	2400	250	1674	2400	250	1674	2400	250
S-LOC 03**		NA			NA		1940	5500	516	1940	6000	516	1940	6000	516
CIRCLING		NA			NA		2060	1 3/4	630	2200	2 1/2	770	2300	3	870
MAREY FIX MINIMUMS															
S-LOC 03***		NA			NA		1780	3000	356	1780	4000	356	1780	4000	356
CIRCLING		NA			NA		2060	1 3/4	630	2200	2 1/2	770	2300	3	870



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
JOE FOSS FIELD	KFSD	HI - ILS OR LOC RWY 3	9B	SIOUX FALLS	SD	1430	I-FSD

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
YKN VOR/DME

TO
SKIES/FSD 35.00 DME

<u>RNP</u>	<u>DISTANCE</u> 17.10	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.TOWER (46-000053)	425446.00N/0971859.00W		2101	20	50	2C	1000				AT14899	5000
2.TERRAIN	425446.00N/0971859.00W		1618 (1600)								AS1500	3100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM
SKIES/FSD 35.00 DME

TO
HETBO/FSD 20.00 DME

<u>RNP</u>	<u>DISTANCE</u> 15.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.AAO	430809.00N/0971127.00W		1710	164	98	4E	1000				AT2290	5000
4.TERRAIN	430833.00N/0971118.00W		1497 (1500)								AS1500	3000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE

FROM

HETBO/FSD 20.00 DME

TO

ROKKY LOM/RADAR

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	10.83											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.AAO	432942.00N/0965006.00W		1752	164	98	4E	500				AT1148	3400
6.TERRAIN	432942.00N/0965006.00W		1552 (1600)								AS1500	3100

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
--------------	-----	------	------	-----	------	----	----	-----	---------------	------	---------	------------------------

SEGMENT REMARKS:

FINAL: ILS

FROM

GP INTCP

TO

RW03

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.94		DA									
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				1674

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
--------------	-----	------	------	-----	------	----	----	-----	---------------	------	---------	------------------------

SEGMENT REMARKS:



FINAL: LOC

FROM

ROKKY LOM/RADAR

TO

MAREY INT

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	4.34			516								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TOWER (46-000676)	433056.00N/0964820.00W		1690	20	3	1A	250					1940

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LOC STEPDOWN

FROM

MAREY INT

TO

5.73 NM AFTER ROKKY LOM/RADAR

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	1.39		5.73 NM AFTER ROKKY LOM/RADAR	356								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
8.TREE (KFSD0007)	433349.08N/0964543.29W		1510	20	3	1A	250				XP20	1780

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP=SDF MDA ADJUSTED TO MATCH PREVIOUS PROCEDURE



MISSED APPROACH : ILS

FROM

DA

TO

FRYRE/15.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1456					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				5000
9.TOWER (46-000195)	434346.00N/0970515.00W		2681	500	50	5D	1000					3700
10.TERRAIN	434351.00N/0970509.00W		1854 (1900)								AS1500	3400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LOC

FROM

5.73 NM AFTER ROKKY LOM/RADAR

TO

FRYRE/15.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 1530					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
								ASC				5000
9.TOWER (46-000195)	434346.00N/0970515.00W		2681	500	50	5D	1000					3700
10.TERRAIN	434351.00N/0970509.00W		1854 (1900)								AS1500	3400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT

JOE FOSS FIELD

AIRPORT ID

KFSD

PROCEDURE NAME

HI - ILS OR LOC RWY 3

AMDT NO.

9B

CITY

SIOUX FALLS

STATE

SD

AIRPORT ELEVATION

1430

FACILITY

I-FSD

CIRCLING

☐ ALL CATS

☐ CAT A

☐ CAT B

☒ CAT C

☒ CAT D

☒ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY C											
11.TANK (46-020600)	433149.80N/0964527.00W	2.92	630/630	1697	250	50	4D	300		AC50	2060/2060
CATEGORY D											
12.TOWER (46-020593)	433628.57N/0964836.10W	3.82	770/770	1847	500	50	5D	300		AC50	2200/2200
CATEGORY E											
13.TOWER (46-000424)	433839.38N/0964912.35W	4.78	870/870	1939	20	3	1A	300		XP61	2300/2300

CIRCLING REMARKS:

XP61 - TO MAINTAIN PREVIOUS MDA DUE TO THIS BEING AN ABBREVIATED AMENDMENT. MDA SHOULD BE EVALUATED FOR DECREASE AT NEXT FULL AMENDMENT.

ESA

CENTER

FSD VORTAC

RADIUS

100

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (46-000261)	445757.00N/0973523.00W	336	86.3	3552	500	50	5D	1000			4600

MSA REMARKS:

MSA

CENTER

FSD VORTAC

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (46-000194)	433107.00N/0963206.00W	117	13.3	3444	250	50	4D	1000			4500

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

QUALITY
22
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

Page 5 of 8

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
FSD APP CON, FSD TOWER

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KFSD	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KFSD	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> AWOS	<u>LOCATION</u> KMDS	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KMDS	<u>DISTANCE</u> 30.03	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 110

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KFSD 1429.9, KMDS 1718.4
RA = 109.48.

<u>PRIMARY NAVAID</u> I-FSD	<u>MONITOR POINT</u> FSD ATCT	<u>HRS OPERATION</u> 19 5	<u>CAT</u> 1 3
--------------------------------	----------------------------------	---------------------------------	----------------------

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW09 - MIRL (PCL)	BSC-G	
RW27 - MIRL (PCL)	BSC-G	
RW15 - HIRL (PCL), REIL (PCL), PAPI-4L (PCL)	NPI-G	
RW33 - HIRL (PCL), REIL (PCL), PAPI-4L (PCL)	NPI-G	
RW03 - MALSR (PCL), HIRL (PCL), C/LINE, PAPI-4L	PIR-G	APPROACH
RW21 - TDZ, MALSR (PCL), HIRL (PCL), C/LINE (PCL), VASI-4L (PCL)	PIR-G	APPROACH

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 1423.5	<u>TCH</u> 54.3	<u>ELEV GS ANTENNA</u> 1419.5	<u>DISTANCE FROM RWY</u> 1040	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 54.0
---------------------------------	-------------------------------------	--------------------	----------------------------------	----------------------------------	---------------------------	--------------------

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
---------------------	----------------------	------------	----------------

CRITICAL TEMPERATURE REMARKS:





<u>AIRPORT</u> JOE FOSS FIELD	<u>AIRPORT ID</u> KFSD	<u>PROCEDURE NAME</u> HI - ILS OR LOC RWY 3	<u>AMDT NO.</u> 9B	<u>CITY</u> SIOUX FALLS	<u>STATE</u> SD	<u>AIRPORT ELEVATION</u> 1430	<u>FACILITY</u> I-FSD
PART E: PREPARED BY							
<u>NAME</u> RUSSELL ROSLEWSKI			<u>OFFICE</u> AJV-A421	<u>DATE</u> 03/30/2020	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST		

QUALITY
22
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

Page 8 of 8